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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/829,624	04/22/2004	Eric L. Barsness	ROC920030407US1	7304
46797 7590 04/06/2007 IBM CORPORATION, INTELLECTUAL PROPERTY LAW DEPT 917, BLDG. 006-1 3605 HIGHWAY 52 NORTH ROCHESTER, MN 55901-7829			EXAMINER COLAN, GIOVANNA B	
			ART UNIT 2162	PAPER NUMBER
SHORTENED STATUTORY PERIOD OF RESPONSE			MAIL DATE	DELIVERY MODE
3 MONTHS			04/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

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Office Action Summary	Application No.	Applicant(s)	
	10/829,624	BARSNESS ET AL.	
	Examiner	Art Unit	
	Giovanna Colan	2162	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 January 2007.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-44 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-44 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

1. This action is issued in response to the Amendment filed on 01/18/2007.
2. Claims 22, and 38 were amended. No claims were canceled. No claims were added.
4. Claims 1 – 44 are pending in this application.
5. Applicant's arguments in regards to the applied prior art filed on 01/18/2007 have been fully considered but they are not persuasive.
6. The Applicant's arguments are moot in view of the new ground(s) of rejection for purpose of 35 USC § 101 rejection.

Specification

7. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: The term "computer readable storage medium" recited in claims 22, and 38 is not defined in the specification.

Claim Rejections - 35 USC § 101

8. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

9. Claims 1 – 44 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 1, 17, 22, 38, 43, and 44 are not statutory because claims they merely recite computing steps without producing any concrete, useful result and tangible result and/or being limited to a practical application within the technological arts (such as, outputting or displaying).

That is, it must produce a “useful, concrete and tangible result.” State Street, 149 F.3d at 1373-74, 47 USPQ2d at 1601-02. The purpose of this requirement is to limit patent protection to inventions that possess a certain level of “real world” value, as opposed to subject matter that represents nothing more than an idea or concept, or is simply a starting point for future investigation or research (Brenner v. Manson, 383 U.S. 519, 528-36, 148 USPQ 689, 693-96 (1966); In re Fisher, 421 F.3d 1365, 76 USPQ2d 1225 (Fed. Cir. 2005); In re Ziegler, 992 F.2d 1197, 1200-03, 26 USPQ2d 1600, 1603-06 (Fed. Cir. 1993)).

Additionally, claims 1, 22, and 43 recite “merging the first and second columns only if...” in the last step. Such claims do not produce “useful, concrete and tangible result” when the condition (“only if...”) is met or not. The claims do not recite whether the “merging...” will occur if the condition is not met, and whether the limitation will produce useful, concrete and tangible results in any situation.

Any claim not specifically addressed, above, is being rejected as incorporating the deficiencies of a claim upon which it depends.

Examiner asserts that all claims should be checked for clarification.

Appropriate action is required.

Claim Rejections - 35 USC § 102

10. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

11. Claims 1 – 44 are rejected under 35 U.S.C. 102(e) as being anticipated by Sandler et al. (Sandler hereinafter) (US Patent No. 2003/0217033 A1, filed: May 17, 2002).

Regarding Claims 1, and 22, Sandler discloses computer readable storage medium containing a program which, when executed, performs a process for identifying correlated columns from database tables, the process comprising:

determining correlation attributes for a first column and a second column from one or more database tables, the correlation attributes describing for each column at

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least one of the column and content of the column (Fig. 18A, items 1806, and 1804, Page 17, [0235], lines 7 – 12; wherein the step of mapping which includes all of the values in field K1 1804 that have the same values in field F1 1806 corresponds to the step of determining the correlation attributes as claimed; wherein values F1 corresponds to the first column claimed; and wherein values in K1 corresponds to the second column claimed; Sandler);

comparing the correlation attributes from the first and second column (Fig. 18A, items 1806, and 1804, Page 17, [0235], lines 7 – 12, all of the values in field K1 1804 that have the same values in field F1 1806, Sandler);

identifying similarities between the first and second column on the basis of the comparison (Fig. 18A, items 1806, and 1804, Page 17, [0235], lines 8 – 15, all of the values in field K1 1804 that have the same values in field F1 1806, Sandler¹);

on the basis of the identified similarities, determining whether the first and second column are correlated (Fig. 18A, Page 17, [0235], lines 8 – 15, “To perform this mapping, all of the values in field K1 1804 **that have the same values** in field F1 1806 must be combined...”; wherein “the same values” corresponds to the identified similarities claimed; Sandler); and

merging the first and second columns only if the columns are determined to be correlated (Fig. 18A, items 1806, 1804, 1802, and 1810, Page 17, [0235], lines 7 – 15; “... To perform this mapping, all of the values in field K1 1804 that have the same

¹ Wherein the step of mapping all the values in **field K1 1804 that have the same values in field F1 1806** corresponds to the step of identifying the similarities between the first and second column as claimed.

values in field F1 1806 **must be combined to provide a value for field F 1810 in table TARGET 1802 ...**", Sandler²).

Regarding Claims 2, and 23, Sandler discloses a computer readable medium, wherein identifying the similarities comprises:

determining a correlation value indicating a degree of correlation between the first and the second column (Page 2, [0018], lines 6 – 9, Sandler); and

determining whether the correlation value exceeds a predetermined threshold (Page 2, [0018], lines 6 – 9; is above a predetermined threshold; Sandler).

Regarding Claims 3, and 24, Sandler discloses a computer readable medium, wherein the process further comprises:

if it is determined that the first and second column are correlated (Fig. 18A, items 1806, and 1804, Page 17, [0235], lines 7 – 12, Sandler), displaying an indication to a user that the first and second column can be merged (Page 1, and 2, [0008], and [0015], lines 1 – 5, and 4 – 7; respectively, Sandler); and

in response to user input, merging the first and second column into a single column (Page 10, [0132], lines 2 – 8, Sandler).

² According to the Academic Press Dictionary of Science and Technology from Elsevier Science & Technology (1992), Merge is define as "Computer Programming: A process that combines two or more ordered files into one similarly ordered file". Therefore, the Examiner interprets the step of combining values in field K1 1804 that have the same values in field F1 1806 as the step of merging the first and second columns as claimed.

Regarding Claims 4, and 25, Sandler discloses a computer readable medium, wherein the first column is a column of a first database table and the second column is a column of a second database table, the process further comprising:

determining correlation attributes for N columns from the first database table and M columns from the second database table, where N and M are integers (Fig. 18A, items 1806, and 1804, Page 17, [0235], lines 7 – 12, Sandler);

comparing the correlation attributes from each of the N columns with the correlation attributes from each of the M columns to identify similarities between the N and M columns (Fig. 18A, items 1806, and 1804, Page 17, [0235], lines 7 – 12, all of the values in field K1 1804 that have the same values in field F1 1806, Sandler); and

on the basis of the identified similarities, determining whether one or more of the N and M columns are correlated (Fig. 18A, Page 17, [0235], lines 12 – 15, Sandler).

Regarding Claims 5, and 26, Sandler discloses a computer readable medium, wherein the process further comprises:

merging each of the one or more of the N and M columns determined to be correlated (Fig. 18A, items 1806, 1804, 1802, and 1810, Page 17, [0235], lines 7 – 15; all of the values in field K1 1804 that have the same values in field F1 1806 must be combined to **provide a value for field F 1810 in table TARGET 1802**, Sandler).

Regarding Claims 6, and 27, Sandler discloses a computer readable medium, wherein the process further comprises:

determining, from the one or more database tables, metadata describing characteristics of each column (Page 4, [0056], lines 3 – 10, Sandler); and

wherein the correlation attributes are determined on the basis of the determined metadata (Page 18, [0251], lines 3 – 10, Sandler).

Regarding Claims 7, and 28, Sandler discloses a computer readable medium, wherein the determined metadata describes for each column an attribute of a data value in the column (Fig. 18A, items 1806, and 1804, Page 17, [0235], lines 8 – 15, all of the values in field K1 1804 that have the same values in field F1 1806, Sandler).

Regarding Claims 8, and 29, Sandler discloses a computer readable medium, wherein the determined metadata describes for each column at least one of:

- (i) a label;
- (ii) a comment;
- (iii) a constraint;
- (iv) a trigger;
- (v) a name (Page 9, [0116], lines 1 – 3, Sandler);
- (vi) a data type (Page 4, [0057], lines 10 – 12; data type, Sandler); and
- (vii) a column length (Page 4, [0057], lines 10 – 12; length of the columns, Sandler).

Regarding Claims 9, and 30, Sandler discloses a computer readable medium, wherein the process further comprises:

determining, from the one or more database tables, statistical parameters associated with each of the columns (Page 4, [0059], lines 1 – 5, Sandler); and

wherein the correlation attributes are determined on the basis of the determined statistical parameters (Page 4, [0059], lines 5 – 9, Sandler).

Regarding Claims 10, and 31, Sandler discloses a computer readable medium, wherein the determined statistical parameters describe for each column at least one of:

- (i) a minimum value (Page 4, [0059], lines 1 – 5; minimum; Sandler);
- (ii) a maximum value (Page 4, [0059], lines 1 – 5; maximum; Sandler);
- (iii) an average value; and
- (iv) a range of values (Page 4, [0059], lines 1 – 5; ... maintains a range indices for each key field column ... ; Sandler).

Regarding Claims 11, and 32, Sandler discloses a computer readable medium, wherein the process further comprises:

determining, from the one or more database tables, ontological properties describing cognitive qualities associated with each column (Page 8, [0110], lines 3 – 9, Sandler); and

wherein the correlation attributes are determined on the basis of the determined ontological properties (Page 8, [0110], lines 3 – 9, Sandler).

Regarding Claims 12, and 33, Sandler discloses a computer readable medium, wherein the determined ontological properties describe for each column at least one of:

- (i) a synonym (Page 8, [0110], lines 3 – 9; synonym table, Sandler);
- (ii) a parent node (Page 6, [0073], lines 9 – 14; Sandler); and
- (iii) an ancestor node (Page 6, [0073], lines 9 – 14; Sandler).

Regarding Claims 13, and 34, Sandler discloses a computer readable medium, wherein the process further comprises:

determining, from the one or more database tables, metadata describing the ontological properties (Page 8, [0110], lines 3 – 9, Sandler).

Regarding Claims 14, and 35, Sandler discloses a computer readable medium, wherein the process further comprises:

determining, from the one or more database tables, measurement units associated with each column (Page 4, [0059], lines 1 – 5, Sandler); and

wherein the correlation attributes are determined on the basis of the determined measurement units (Page 4, [0059], lines 5 – 9, Sandler).

Regarding Claims 15, and 36, Sandler discloses a computer readable medium, wherein the process further comprises:

determining, from the one or more database tables, metadata describing the measurement units (Page 4, [0059], lines 1 – 5, Sandler).

Regarding Claims 16, and 37, Sandler discloses a computer readable medium, wherein identifying the similarities comprises:

determining whether the first and second column are associated with similar measurement units (Fig. 18A, items 1806, and 1804, Page 17, [0235], lines 7 – 12, all of the values in field K1 1804 that have the same values in field F1 1806, Sandler).

Regarding Claims 17, and 38, Sandler discloses a computer readable storage medium containing a program which, when executed, performs a process for identifying correlated columns from database tables, the process comprising:

determining metadata for at least two columns from one or more database tables, the metadata describing characteristics of each column (Page 4, [0056], lines 3 – 10, Sandler);

analyzing content from the at least two columns from the one or more database tables (Fig. 18A, items 1806, and 1804, Page 17, [0235], lines 7 – 12, all of the values in field K1 1804 that have the same values in field F1 1806, Sandler); and

computing a degree of correlation between the at least two columns using the determined metadata and the analyzed content (Page 17 and 18, [0235] and [0251], lines 8 – 15 and 3 – 10; respectively, wherein the step of mapping by combining the

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same values in fields corresponds to the step of determining the degree of correlation as claimed; Sandler).

Regarding Claims 18, and 39, Sandler discloses a computer readable medium, wherein determining the degree of correlation comprises:

assigning a first correlation value to the determined metadata (Page 9, [0122], line 1; one column is chosen as a field of values sources; Sandler);

assigning a second correlation value to the analyzed content, wherein the first and second correlation values are different (Page 9, [0123], and [0124], lines 1 – 6, and 1 – 2; respectively; Sandler); and

calculating a total correlation value on the basis of the first and second correlation values (Page 9, [0125], lines 1 – 4; ... distinct values in the column gets added to the result of (3); Sandler).

Regarding Claims 19, and 40, Sandler discloses a computer readable medium, wherein the process further comprises:

merging the at least two columns if the total correlation value exceeds a predetermined threshold value (Page 2, [0018], lines 6 – 9; is above a predetermined threshold; Sandler).

Regarding Claims 20, and 41, Sandler discloses a computer readable medium, wherein analyzing the content comprises:

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determining statistical parameters from the content of each column (Page 4, [0059], lines 1 – 5, Sandler).

Regarding Claims 21, and 42, Sandler discloses a computer readable medium, wherein the process further comprises:

merging the first and the at least one second column if it is determined that the first and at least one second column are correlated (Fig. 18A, items 1806, 1804, 1802, and 1810, Page 17, [0235], lines 7 – 15; all of the values in field K1 1804 that have the same values in field F1 1806 must be **combined to provide a value for field F 1810 in table TARGET 1802**, Sandler).

Regarding Claim 43, Sandler discloses a data processing system comprising:
at least one database having one or more database tables (Page 2, [0016], lines 1 – 4, Sandler); and

a correlation manager for identifying correlated columns from the one or more database tables (Page 6, [0082], lines 3 – 6, Sandler), the correlation manager being configured for:

determining correlation attributes for a first column and a second column from the one or more database tables, the correlation attributes describing for each column at least one of the column and content of the column (Fig. 18A, items 1806, and 1804, Page 17, [0235], lines 7 – 12; wherein the step of mapping which includes all of the values in field K1 1804 that have the same

values in field F1 1806 corresponds to the step of determining the correlation attributes as claimed; wherein values F1 corresponds to the first column claimed; and wherein values in K1 corresponds to the second column claimed; Sandler);

comparing the correlation attributes from the first and second column (Fig. 18A, items 1806, and 1804, Page 17, [0235], lines 7 – 12, all of the values in field K1 1804 that have the same values in field F1 1806, Sandler);

identifying similarities between the first and second column on the basis of the comparison (Fig. 18A, items 1806, and 1804, Page 17, [0235], lines 8 – 15, all of the values in field K1 1804 that have the same values in field F1 1806, Sandler³);

on the basis of the identified similarities, determining whether the first and second column are correlated (Fig. 18A, Page 17, [0235], lines 12 – 15, “To perform this mapping, all of the values in field K1 1804 **that have the same values** in field F1 1806 must be combined...”; wherein “the same values” corresponds to the identified similarities claimed; Sandler); and

merging the first and second columns only if the columns are determined to be correlated (Fig. 18A, items 1806, 1804, 1802, and 1810, Page 17, [0235], lines 7 – 15; “... To perform this mapping, all of the values in field K1 1804 that

³ Wherein the step of mapping all the values in **field K1 1804 that have the same values in field F1 1806** corresponds to the step of identifying the similarities between the first and second column as claimed.

have the same values in field F1 1806 **must be combined to provide a value for field F 1810 in table TARGET 1802 ...**", Sandler⁴).

Regarding Claim 44, Sandler discloses a data processing system comprising:
at least one database having one or more database tables (Page 2, [0016], lines 1 – 4, Sandler); and

a correlation manager for identifying correlated columns from the one or more database tables (Page 6, [0082], lines 3 – 6, Sandler), the correlation manager being configured for:

determining metadata for at least two columns from the one or more database tables, the metadata describing characteristics of each column (Page 4, [0056], lines 3 – 10, Sandler);

analyzing content from the at least two columns from the one or more database tables (Fig. 18A, items 1806, and 1804, Page 17, [0235], lines 7 – 12, all of the values in field K1 1804 that have the same values in field F1 1806, Sandler); and

determining a degree of correlation between the at least two columns using the determined metadata and the analyzed content (Page 17 and 18, [0235] and [0251], lines 8 – 15 and 3 – 10; respectively, wherein the step of mapping by

⁴ According to the Academic Press Dictionary of Science and Technology from Elsevier Science & Technology (1992), Merge is define as "Computer Programming: A process that combines two or more ordered files into one similarly ordered file". Therefore, the Examiner interprets the step of combining values in field K1 1804 that have the same values in field F1 1806 as the step of merging the first and second columns as claimed

combining the same values in fields corresponds to the step of determining the degree of correlation as claimed; Sandler).

Response to Arguments

1. Applicant argues that the prior art fails to disclose; “a method for identifying correlated columns from database tables that includes a step of determining correlation attributes for a first column and a second column from one or more database tables, the correlation attributes describing for each column at least one of the column and content of the column”; and further specifically argues that the prior art fails to disclose; “correlation of attributes from the first and second column or the content of the column...”.

Examiner respectfully disagrees. The applied prior art does disclose: a method for identifying correlated columns from database tables that includes a step of determining correlation attributes for a first column and a second column from one or more database tables, the correlation attributes describing for each column at least one of the column and content of the column (Fig. 18A, items 1806, and 1804, Page 17, [0235], lines 7 – 12; wherein the step of mapping which includes all of the values in field K1 1804 that have the same values in field F1 1806 corresponds to the step of determining the correlation attributes as claimed; wherein values F1 corresponds to the first column claimed; and wherein values in K1 corresponds to the second column claimed; Sandler). Wherein the attributes A, A, B, K, B in column F1, and 1, 2, 3, 4, 5, in column K1, correspond to the correlation attributes from the first and second column and the content of the column as claimed. Additionally, the applied art further provide

the details with respect to such correlation of attributes claimed (Page 13, and 17, [0197], and [0235], lines 1 – 10, and 1 – 7; respectively, "... relations between tables can be one-to-one, one-to many, or many-to-many. Each of these relations may be represented by creating a combined table from tables in which the related field are located..."; wherein Examiner interprets the related fields (attributes) in the relations as correlation attributes as claimed; Sandler).

2. Applicant argues that the prior art fails to disclose; "comparing the correlation attributes from the first and second column and identifying similarities between the first and second column on the basis of the comparison"; by pointing out that; "no similarity between columns is identified...".

Examiner respectfully disagrees. The prior art does disclose the claimed limitation of: comparing the correlation attributes from the first and second column (Fig. 18A, items 1806, and 1804, Page 17, [0235], lines 7 – 12, all of the values in field K1 1804 that have the same values in field F1 1806, Sandler); and identifying similarities between the first and second column on the basis of the comparison (Fig. 18A, items 1806, and 1804, Page 17, [0235], lines 8 – 15, all of the values in field K1 1804 that have the same values in field F1 1806, Sandler). Wherein the step of mapping all the values in field K1 1804 that have the same values in field F1 1806 corresponds to the step of identifying the similarities between the first and second column as claimed.

3. Applicant argues that the prior art fails to disclose; “on the basis of the identified similarities, determining whether the first and second column are correlated; and merging the first and second columns only if the columns are determined to be correlated”. And, referring to the examiner’s citation, applicant argues that; “passage has nothing to do with a method for identifying correlated columns from database tables”.

Examiner respectfully disagrees. First, the recitation “a method for identifying correlated columns from database tables” in claims 1 – 22 has not been given patentable weight because the recitation occurs in the preamble. A preamble is generally not accorded any patentable weight where it merely recites the purpose of a process or the intended use of a structure, and where the body of the claim does not depend on the preamble for completeness but, instead, the process steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190 USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481 (CCPA 1951).

Second, as discussed in the Office Action dated 10/10/2006, the applied prior art does disclose the claimed limitation: on the basis of the identified similarities, determining whether the first and second column are correlated (Fig. 18A, Page 17, [0235], lines 12 – 15, “To perform this mapping, all of the values in field K1 1804 **that have the same values** in field F1 1806 must be combined...”; wherein “the same values” corresponds to the identified similarities claimed; Sandler); and merging the first and second columns only if the columns are determined to be correlated (Fig. 18A, items 1806, 1804, 1802, and 1810, Page 17, [0235], lines 7 – 15;

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"... To perform this mapping, all of the values in field K1 1804 that have the same values in field F1 1806 **must be combined to provide a value for field F 1810 in table TARGET 1802 ...**", Sandler). According to the Academic Press Dictionary of Science and Technology from Elsevier Science & Technology (1992), Merge is defined as "Computer Programming: A process that combines two or more ordered files into one similarly ordered file". Therefore, the Examiner interprets the step of combining values in field K1 1804 that have the same values in field F1 1806 as the step of merging the first and second columns as claimed.

4. Applicant argues that the prior art fails to disclose; "determining a degree of correlation between the at least two columns using the determined metadata and the analyzed content".

Examiner respectfully disagrees. The applied art does disclose: determining a degree of correlation between the at least two columns using the determined metadata and the analyzed content (Page 17 and 18, [0235] and [0251], lines 8 – 15 and 3 – 10; respectively, wherein the step of mapping by combining the same values in fields corresponds to the step of determining the degree of correlation as claimed; Sandler).

Prior Art Made Of Record

1. Sandler et al. (US Patent App. Pub. No. 2003/0217033 A1, filed: May 17, 2002).
2. Suzuki et al. (US Patent No. 6,044,383).


Points Of Contact

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Giovanna Colan whose telephone number is (571) 272-2752. The examiner can normally be reached on 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Giovanna Colan
Examiner
Art Unit 2162
March 30, 2007


JOHN BREENE
SUPERVISORY PATENT EXAMINER
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